

# PATENT ABSTRACTS OF JAPAN

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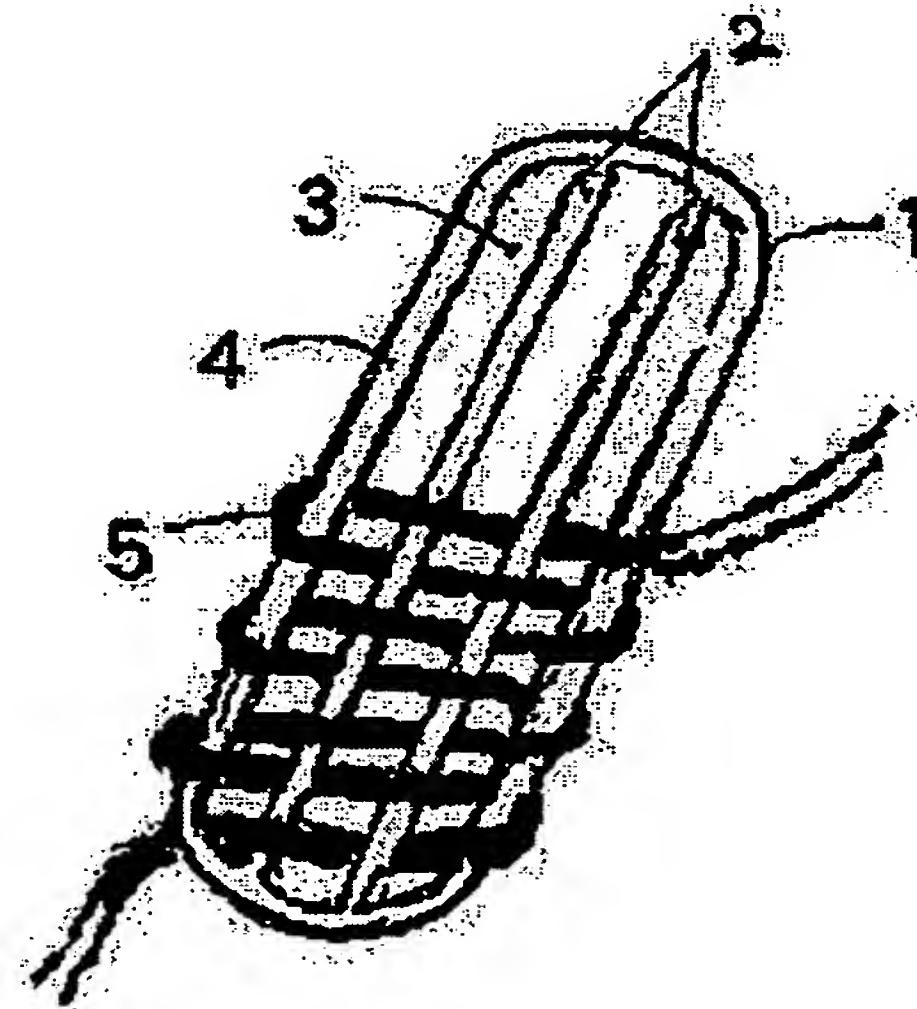
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## (54) BASE BOARD FOR FOOTWEAR

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To prevent a shape collapsing by hollowing out vertical frames of an appropriate width in the center of a plane base board made of synthetic resin and by knitting through formed spaces and an outer frame with a knitting cord by a straw-sandal knitting.

**SOLUTION:** This plane base board 1 of a footwear is formed of a synthetic resin, two vertical frames 2 are hollowed out in the center with appropriate widths and intervals, a knitting cord 5 is alternately passed through the vertical frames 2 formed in the center of the footwear base board using the spaces and the outer frame 4 with a sitting attitude so as to form a recessed/projecting straw-sandal knitting. This is knitted into the base board 1 so that the cords can be knitted from the both ends of the toe and the heel and join together in the center, the both cord ends are drawn out to the rear to be finished in the rear side, thus completing the knitting. The recesses/projections of the knitting cord 5 have the elasticity and the strong restitution force so as to be prevented from easily crushed by continuous wearing. Since the base board 1 is used as a core, the shape collapsing like that of straw sandals is prevented and smartly finished as the shape of the original base board 1. Coloring makes a straw-sandal knitting fashionable preventing shape collapsing.



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**CLAIMS**

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**[Claim(s)]**

[Claim 1] synthetic resin etc. -- the flat-surface substrate (1) of footwear -- making -- the suitable width and suitable spacing for a center -- a door post (2) -- the substrate of the footwear which constituted the flat-surface substrate (1) for making two pass through a knitted cord (5) by turns using \*\*\*\* omission, and this space (3) and outer frame (4), and making the front face of \*\* (6) edited by straw sandals.

[Claim 2] The substrate of the footwear which formed the center of a substrate of the above-mentioned synthetic-resin footwear (7) in the shape of [ of suitable height ] an arch.

[Claim 3] The substrate of the footwear according to claim 1 or 2 which is the above-mentioned footwear substrate (1), and piled up, stuck and carried out foaming resin (8) to the top face.

[Claim 4] The substrate of the footwear according to claim 1, 2, or 3 which made the substrate in the shape of a pipe (9), formed so that the cross section might become the form (10) of an eye, and prepared the suitable bore (11) for a top face.

[Claim 5] The substrate of the footwear according to claim 1, 2, or 3 which formed materials, such as a light metal, striatum, and wood, for the substrate cyclic and in the shape of a frame.

[Claim 6] The substrate of the footwear according to claim 1, 2, or 3 which used only by making the things resinated and solidified in paper, cloth, a chemical fiber, waterproof canvas, a rope, leather, a mesh, etc., or those configurations fix, or used the work timber of rubber, vinyl, polyester, and other chemicals.

[Claim 7] The substrate of the footwear according to claim 1, 2, or 3 using the material which is as natural as \*\*\*\*, a rattan, a bamboo, etc. and can do bending freely.

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## DETAILED DESCRIPTION

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### [Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the substrate of footwear with structure for a footwear front face to do simply \*\* edited by straw sandals formed with irregularity.

[0002]

[Description of the Prior Art] Conventionally, although the straw zori said to be good for a jar stimulus of the sole used the natural thing for the material, there is also no bottom plate and it wore out immediately, it was lacking in endurance, and the thing of the type which stimulates the sole with the projection of IBOIBO etc. had the hard projection, and use of long duration had the fault which cannot be borne.

[0003]

[Problem(s) to be Solved by the Invention] Since this invention used the substrate for the heart in order to aim at manufacturing simply the health footwear which can carry out long duration use, giving a soft stimulus to the jar of the sole in order to remove the above-mentioned fault, it is hard to carry out the mold collapse of it, and it offers the substrate of the footwear which is rich in endurance.

[0004]

[Means for Solving the Problem] the door post (2) of the suitable width for the center of the flat-surface substrate (1) made from synthetic resin etc. -- the means which constitutes \*\* edited by straw sandals and is used as a footwear front face is provided, making two pass through a knitted cord by turns at equal intervals using \*\*\*\* omission, and the space and the outer frame (4) which were made.

[0005] In this case, not only two but the thing which two or more are used and is done is possible for the door post (2) of a substrate (1). Since a stitch will become fine proportionally if a number increases, it can choose according to a use part. In addition, not only monotonous \*\*\*\* omission but it depends on an application and the purpose, and a central door post (2) can be later attached and fixed by the suitable approach. Moreover, as for the both ends which touch an outer frame (4), it is desirable to make it as thin as possible. In addition, different operation will also be made, if it is made a transversal frame or is made a frame changeful in addition to this.

[0006]

[Embodiment of the Invention] This invention is having provided the above-mentioned means, and can do \*\* edited by straw sandals very easily for a short time. The central part (7) of a substrate may be formed in the shape of an arch in suitable height apart from the flat-surface substrate (1) made from synthetic resin etc. at this time. Since how to knit in the case of the shape of this arch is the same as the case of a flat-surface substrate, it is the description that knit going up is finished in the arch condition as a substrate.

[0007] Moreover, if foaming resin (8) is piled up, stuck and made a resin flat-surface substrate (1), since resiliency will come out, a string's (5)'s resiliency is seasoned and the effectiveness that much more cushioning properties soften the fatigue of a guide peg and a pain is born.

[0008] Furthermore, it is also good to add the function which forms the whole in the shape of a pipe (9), prepares the suitable bore (11) for a top face, encloses an aromatic, a germicide, and other active principles with the interior of a pipe, and is made to emit from a bore (11). In addition, a pipe cross

section becomes the form (10) of an eye, and carries out appearance shaping. This form has the description along which a knitted cord (5) passes smoothly.

[0009] In addition, it is also good to replace a substrate (1) with objects which may be able to be used, such as a light metal, striatum, a bamboo, and a tree.

[0010]

[Example] In the example shown in a drawing, the effective way of knitting can be done in the difference with the conventional marked \*\*\*\*\* edited by straw sandals by using this footwear substrate (1). Therefore, if this substrate is used, the troublesomeness which inserts straw in the rope which stretched out the guide peg and was hung on the finger, and dies is cancelable.

[0011] The door post (2) prepared in the center of a footwear substrate will be the structure which carries out the duty, therefore if it makes it pass through a knitted cord by turns with a posture [ having sat down ], it will be the structure that concavo-convex \*\* edited by straw sandals is done as it is.

[0012] Next, it knits, and as a string, it changes with the configuration of a core material and surface string material, and what was connected at intervals of suitable size is considered also including enclosure of the material which has resiliency like foamed rubber or elasticity synthetic resin as a core material first, the steel wire which curled, or various particles, and the thing which has the MAG further.

[0013] Since the line becomes a longitudinal direction when weaving in the line which upheaved to the cloth on which it is hard to slide as string facing with a granulative feeling or a feeling of BUTSUBUTSU, or length, or putting in the seam of a pin tuck perpendicularly and it knits, effective processing, such as being caught in the worn guide peg, and admiration coming out, and being hard to slide, is performed and used. Moreover, it can also consider as guru guru volume attachment \*\*\*\*\* material apart from sewing and using these for tubed at the heart.

[0014] How to prepare irregularity -- at this time, the core material prepares large and small size, and if knitting the string of thick size into parts, such as the arch of foot by which the acupressure effectiveness is considered to be the need more, etc. gives change to a string's size, they will become more powerful [ the effectiveness of the irregularity of a stitch ] -- can be carried out by various technique.

[0015] If it lets the above string pass to a substrate by turns in a longitudinal direction, the footwear front face (6) edited by straw sandals is constituted. Therefore, a clog thong (12) can be attached like the former, and a back (13) is prepared in a tiptoe, and the shape of slippers, it can consider as straw sandals or can also consider [ a base (14) can be attached to a bottom and ] as a \*\*\*\* outside a walk and others.

[0016]

[Effect of the Invention] This invention is synthetic resin etc. and is invention to which a flat-surface substrate (1) is made into a \*\*\*\* omission door post (2), and \*\* edited by straw sandals can make a knitted cord easy by the approach of making it passing through by turns from width, knitting, and dying. Resiliency has the irregularity of a knitted cord, and since stability is strong, even if it continues wearing, it is not crushed easily. Moreover, a result is also exactly finished as a substrate (1), without mold collapse arising like a straw zori, since a substrate (1) serves as the heart.

Moreover, when it forms in the shape of an arch, whenever he walks, the sole is fitted with PITARI by the stability, and the comfortable acupressure effectiveness is repeated. Furthermore, since it knits to a substrate (1), after being able to knit and progress from the both ends of a tiptoe and a heel and joining in the center, both \*\*\*\* are pulled out to a flesh side, and if the settlement is carried out on a background, it will knit, and becomes the end. Although a tiptoe finishes and a next door and settlement are difficult for the conventional \*\* edited by straw sandals, it is the effectiveness or the large thing which can avoid the difficulty.

[0017] This invention is epoch-making invention that depend on the quality of the material of a substrate, and structure, and various change and effectiveness are acquired. Since it does not slide even if it does not put in the force by making from the quality of the material which cannot slide on a string easily, even if it continues standing by the kitchen work of long duration, a guide peg does not become painful like the conventional flat and hard slippers, or it does not get tired. Furthermore, the footwear which is useful to the health promotion which does not have and carry out the \*\*\*\*

collapse of the modern sense with a joke according to a design and color even if it is \*\* edited by straw sandals can be offered.

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**DESCRIPTION OF DRAWINGS**

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**[Brief Description of the Drawings]**

[Drawing 1] It is the front view showing the example in the condition of knitting a string in the footwear substrate and substrate of this invention.

[Drawing 2] It is the perspective view of the string which is the material of this invention.

[Drawing 3] It is the perspective view showing the example in the condition of having attached the clog thong of this invention.

[Drawing 4] It is the perspective view showing the example in the condition of having attached the back of this invention.

[Drawing 5] It is a side elevation in the condition of having formed in the shape of [ of this invention ] an arch.

[Drawing 6] It is a side elevation in the condition of having piled up, stuck and carried out the foaming resin of this invention.

[Drawing 7] It is the flat surface and sectional view in the condition of having formed in the shape of [ of this invention ] a pipe.

**[Description of Notations]**

- 1 Substrate
- 2 Door Post
- 3 Space
- 4 Outer Frame
- 5 Knitted Cord
- 6 Stitch Irregularity
- 7 Arch-like Substrate
- 8 Foaming Resin
- 9 Pipe-like Substrate
- 10 Pipe Cross Section
- 11 Bore
- 12 Clog Thong
- 13 Back
- 14 \*\*\*\*

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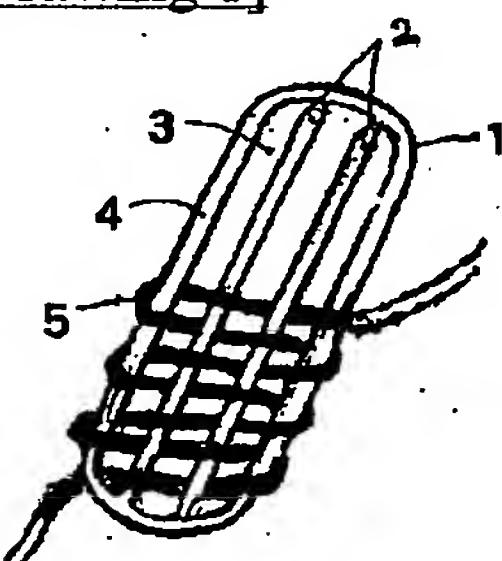
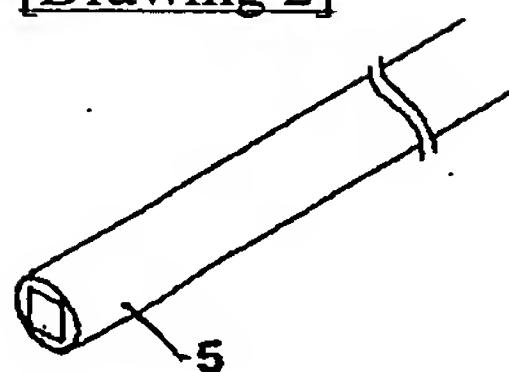
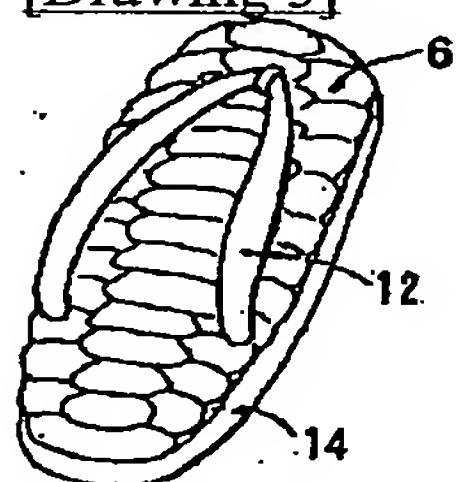
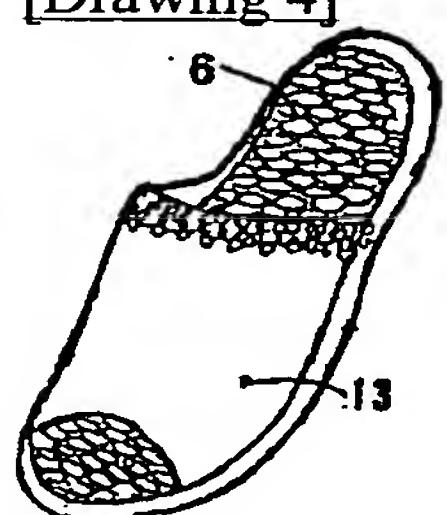
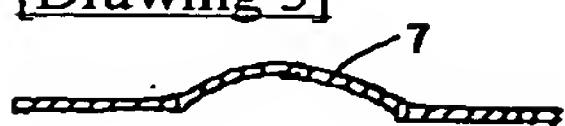
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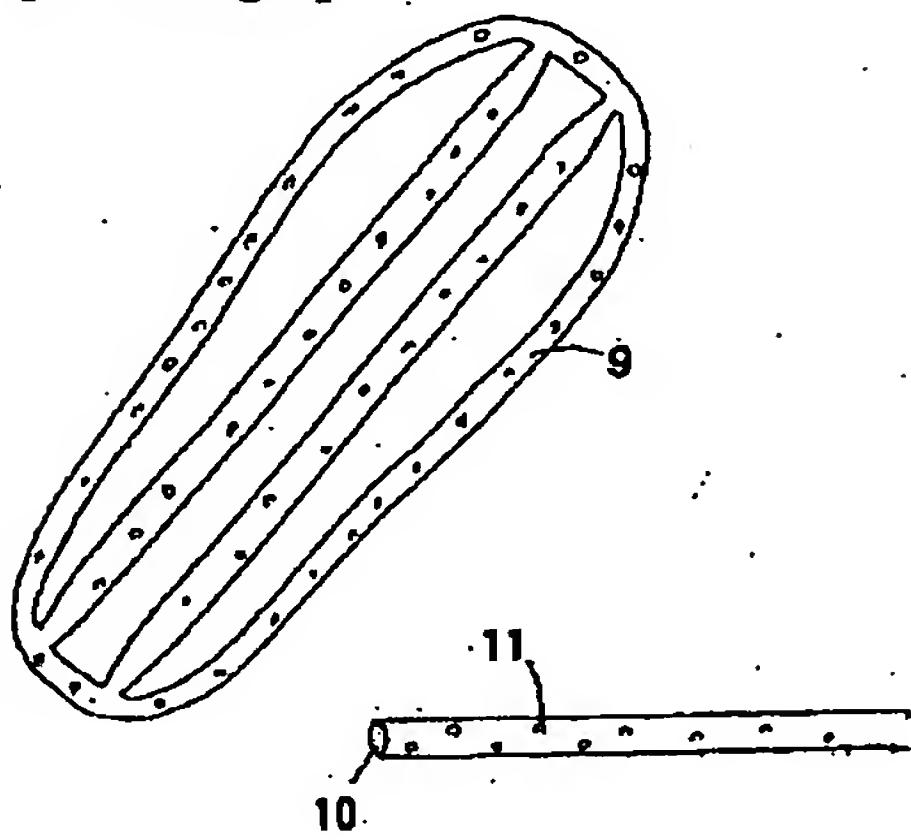
**DRAWINGS**

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**[Drawing 1]****[Drawing 2]****[Drawing 3]****[Drawing 4]****[Drawing 5]****[Drawing 6]**



[Drawing 7]



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[Translation done.]

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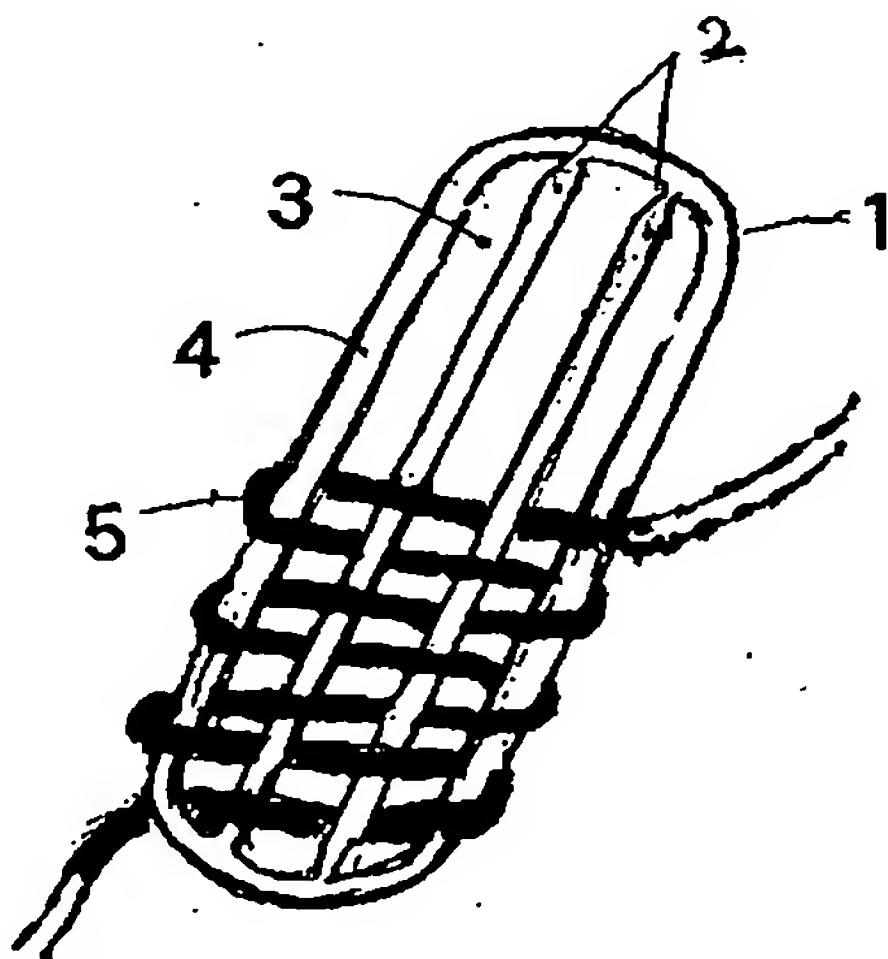
Fターム(参考) 4F050 AA11 AA15 BA01 BA49 BF18  
HA01 HA07 HA16 HA53 HA57

(54)【発明の名称】履物の基板

(57)【要約】

【課題】 健康増進のために、足裏のツボをソフトに刺激するように凹凸のワラジ編みが容易に出来る履物の基板を提供すること。

【解決手段】 合成樹脂等で履物の基板(1)を作り、中央に適当な巾と間隔で縦枠(2)をくり抜き、該縦枠(2)を芯にして空間を交互にくぐらせてワラジ編みが出来るようにしたものである。



## 【特許請求の範囲】

【請求項1】 合成樹脂等で履物の平面基板（1）を作り、中央に適当な巾と間隔で縦枠（2）二本をくり抜き、この空間（3）と外枠（4）とを用い、交互に編紐（5）をくぐらせワラジ編み（6）の表面を作る為の平面基板（1）を構成した履物の基板。

【請求項2】 上記合成樹脂履物の基板中央（7）を適当な高さのアーチ状に形成した履物の基板。

【請求項3】 上記の履物基板（1）であって、その上面へ発泡樹脂（8）を重ね貼りした請求項1または2記載の履物の基板。

【請求項4】 基板をパイプ状（9）に作り、その断面が目の形（10）になるよう形成し、上面に適当な透孔（11）を設けた請求項1、2または3記載の履物の基板。

【請求項5】 基板を軽い金属、線条体、木材等の素材を輪状、枠状に形成した請求項1、2または3記載の履物の基板。

【請求項6】 紙、布、化学繊維、防水布、縄、革、メッシュ等に樹脂加工を施し固形化したもの、又はそれらの形状を固定させただけで用いたり、或いはゴム、ビニール、ポリエステル、その他の化学製品の加工材を用いた請求項1、2または3記載の履物の基板。

【請求項7】 藤蔓、ラタン、竹等と自然のもので自由に曲げ加工が出来る素材を用いた請求項1、2または3記載の履物の基板。

## 【発明の詳細な説明】

## 【0001】

【発明の属する技術分野】 本発明は、履物表面が凹凸で形成されるワラジ編みが簡単に出来るための構造をもつ履物の基板に関するものである。

## 【0002】

【従来の技術】 従来、足裏のツボ刺激に良いと云われる藁草履は、自然のものを素材に用いているが、底板もなくてすぐにすり切れて耐久性に乏しく、またイボイボの突起物で足裏を刺激するタイプのもの等は、突起物が固くて長時間の使用には耐えられない欠点があった。

## 【0003】

【発明が解決しようとする課題】 本発明は、上記欠点を除く為に、足裏のツボにソフトな刺激を与えつつ、長時間使用出来る健康履物を簡単に製作する事を目的とする為に、基板を芯に用いたので、型崩れしにくく、耐久性に富む履物の基板を提供するものである。

## 【0004】

【課題を解決するための手段】 合成樹脂等で作った平面基板（1）の中央に適当な巾の縦枠（2）二本を等間隔でくり抜き、出来た空間と外枠（4）とを利用して編紐を交互にくぐらせながらワラジ編みを構成し履物表面とする手段を講じたものである。

【0005】 この場合基板（1）の縦枠（2）は二本に

限らず、複数本用いてする事も可能である。数が多くなれば編目は比例して細かくなるので、使用箇所により選択出来る。尚、中央の縦枠（2）は平板のくり抜きに限らず、用途、目的に依り、適當な方法で後から取付け固定する事も可能である。又、外枠（4）に接する両端は、なるべく細くするのが望ましい。尚、横枠にしたり、その他変化ある枠にすれば、異なる使用方法も出来る。

## 【0006】

10 【発明の実施の形態】 本発明は、上記の手段を講じた事で、大変容易に、短時間でワラジ編みが出来るものである。この時合成樹脂等で作った平面基板（1）とは別に、基板の中央部分（7）を適當な高さでアーチ状に形成してもよい。このアーチ状の場合の編み方は、平面基板の場合と同じであるので編み上りが、基板どおりのアーチ状態に仕上がるのが特徴である。

【0007】 又、樹脂平面基板（1）に発泡樹脂（8）を重ね貼りすれば、弾力性が出るので、紐（5）の弾力性に加味され、より一層のクッション性が足の疲れ、痛みを和らげる効果が生まれる。

【0008】 更に、全体をパイプ状（9）に形成し、上面に適當な透孔（11）を設け、パイプ内部へ芳香剤、殺菌剤、その他有効成分を封入し、透孔（11）より発散させる機能を付加する事も良い。尚、パイプ断面は目の形（10）になる様成形する。この形は編紐（5）がスムーズに通る特徴がある。

【0009】 その他、基板（1）を軽い金属、線条体、竹、木等利用出来る可能性のある物に代える事もよい。

## 【0010】

30 【実施例】 図面に示す実施例に於いて、この履物基板（1）を用いる事により、従来のワラジ編みの方法とは格段の相違で効果的な編み方が出来るものである。従って、この基板を用いれば、足を投げ出して指に掛けた縄に藁を差し込んでゆく煩わしさが解消出来る。

【0011】 履物基板中央に設けた縦枠（2）が、その役目をする構造であり、従って座ったままの姿勢で編紐を交互にくぐらせてゆけば、そのまま凹凸のワラジ編みが出来上がるという仕組みである。

## 【0012】

40 次に編み紐としては、芯材と表面紐材との構成で成り、先ず芯材としては、発泡ゴムや軟質合成樹脂のような弾力性のある素材、カールしたスチールワイヤー、またはいろいろな粒子の封入、更に磁気を持つものも含め、適當なサイズ間隔でつないだもの等も考えられる。

【0013】 紐表面材としては、ザラザラ感やツツツツ感を持つ滑りにくい布や縫に隆起した線を織り込んだり、縫にピンタックの縫い目を入れたりすれば編んだ時にその線が横方向になるので、履いた足に引っ掛かり感が出て滑りにくい等効果的加工を施して用いる。又、これらを筒状に縫って用いるのと別に芯にグルグル巻き付

けて表面紐材とする事も出来る。

【0014】この時、芯材は大小のサイズを用意しておき、指圧効果がより必要と思われる土踏まずなどの部分には、太いサイズの紐を編み込む等、紐の太さに変化を持たせれば編目の凹凸の効果はより強力となる等、凹凸の設け方は多様な手法で実施する事が可能である。

【0015】以上の紐を横方向に交互に基板へ通してゆけば、ワラジ編の履物表面(6)が構成されるのである。従って、従来の様に鼻緒(12)を付けてワラジ履きとしたり、つま先に甲部(13)を設けてスリッパ状に、底に台(14)を付けて散歩、その他の外履きとする事も出来る。

#### 【0016】

【発明の効果】本発明は、合成樹脂等で、平面基板(1)をくり抜き縦枠(2)とし、編紐を横から交互にくぐらせて編み込んでゆく方法により、ワラジ編みが容易に出来る発明である。編紐の凹凸は弾力性があり、復元力が強いので、履き続けても容易につぶれる事がない。又、基板(1)が芯となるので藁草履の様に型くずれが生じる事もなく、仕上がりも基板(1)どおりにきちんと仕上がる。又、アーチ状に形成した場合は、歩く度にその復元力で足裏にピタリとフィットして心地よい指圧効果が繰り返される。更に、基板(1)に編み付けるので、つま先、かかとの両端から編み進む事が出来て中央で合流した後、双方の紐端を裏へ引き出し、裏側でその始末をすれば編み終わりとなる。従来のワラジ編みはつま先が終りとなり、始末が難しいが、その難点を避けられる効果が大きいものである。

【0017】本発明は、基板の材質、構造に依り多様な変化と効果が得られるという画期的な発明である。紐を滑りにくい材質で作る事により、力を入れなくても滑らないので長時間の台所仕事で立ち続けても、従来の扁平で固いスリッパの様に足が痛くなったり、疲れる事もな\*

\*い。更に、デザイン、色彩によりワラジ編みであっても、お洒落で現代的センスを持ち、尚型くずれしない健康増進に役立つ履物を提供出来るものである。

#### 【図面の簡単な説明】

【図1】本発明の履物基板と基板に紐を編み付ける状態の実施例を示す正面図である。

【図2】本発明の素材である紐の斜視図である。

【図3】本発明の鼻緒を付けた状態の実施例を示す斜視図である。

10 【図4】本発明の甲部を付けた状態の実施例を示す斜視図である。

【図5】本発明のアーチ状に形成した状態の側面図である。

【図6】本発明の発泡樹脂を重ね貼りした状態の側面図である。

【図7】本発明のパイプ状に形成した状態の平面及び断面図である。

#### 【符号の説明】

1	基板
2	縦枠
3	空間
4	外枠
5	編紐
6	編目凹凸
7	アーチ状基板
8	発泡樹脂
9	パイプ状基板
10	パイプ断面
11	透孔
12	鼻緒
13	甲部
14	底台

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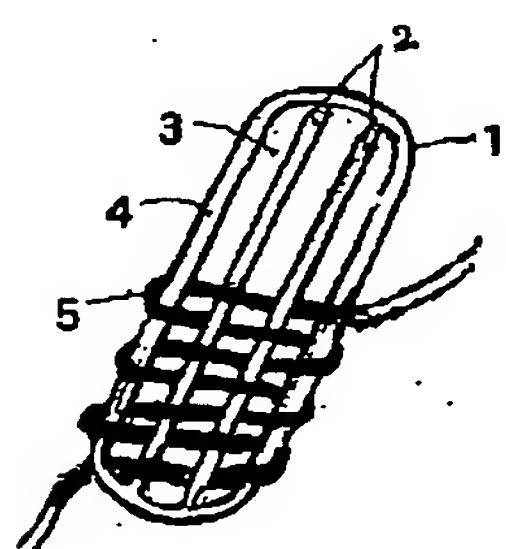
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120

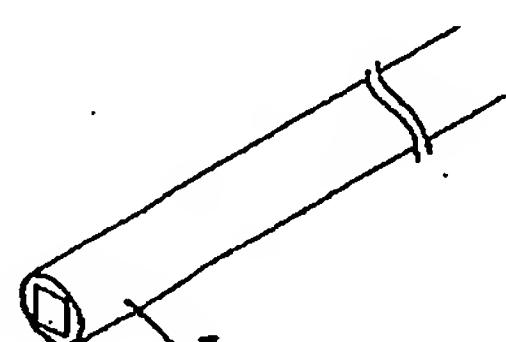
130

140

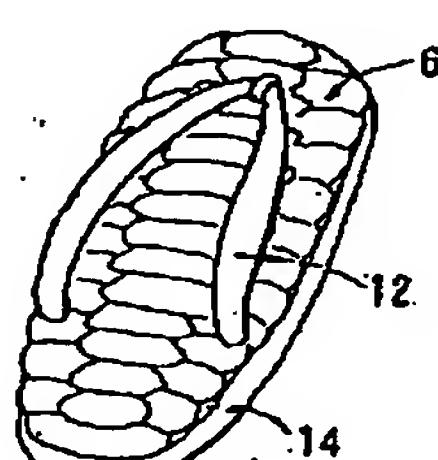
【図1】



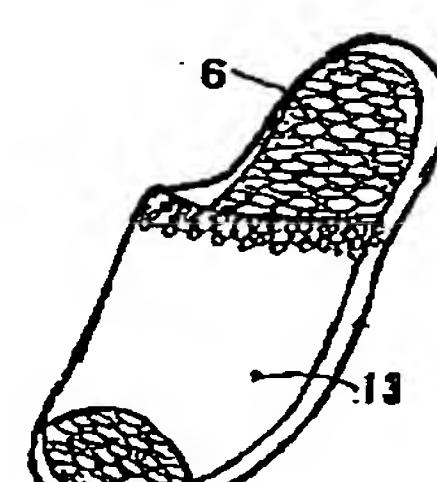
【図2】



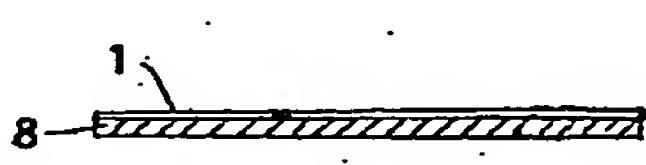
【図3】



【図4】



【図6】



【図5】



(4)

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【図7】

